CMS & CSI for Naval Vessels

Enhanced Solutions for Future Challenges at Sea

Elbit Systems™
ISTAR & EW

CMS & CSI for Naval Vessels

Comprehensive System for Frigates and Corvettes

The maritime arena encompasses numerous challenges in a complex operational environment. Naval platforms incorporate critical systems and subsystems enabling naval warfare in different combat domains: sea, air, sub-surface and land.

To provide comprehensive multi-mission support, Combat Management Systems (CMS) integrate the ship's combat suite to protect against multiple incoming threats, enable force interoperability and coordinate various mission profiles.

ENTCS Overview

CMS delivers cost-effective end-to-end naval operation management, providing advanced system capabilities from mission planning to mission execution. Designed for frigates and corvettes, the scalable CMS solution is configurable to customer requirements and user preferences.

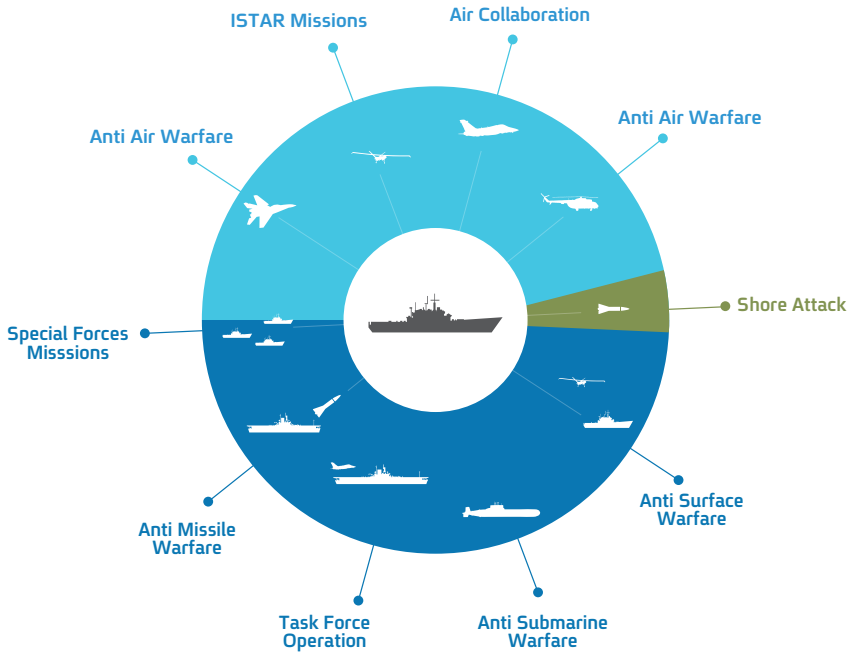
Advanced Algorithms and Analysis

CMS compiles a 4D common operational picture at the ship and force levels (surface, air, underwater, shore). The system incorporates advanced technologies for picture analysis as well as for decision-making.

Comprehensive Functionality and Mission Support

The CMS incorporates advanced technologies and networking capabilities to provide naval commanders with full mission support, enabling force interoperability and integration of naval ships and shore-based naval command centers. The system effectively addresses the challenges of coordinating and integrating naval CMS for anti-missile warfare ,anti-surface warfare, shore attacks, anti-submarine warfare, mine counter measure missions, surveillance and special operations.

ENTCS CMS Mission Support



Intuitive Operation

Incorporates a user-friendly and ergonomic human machine interface (HMI).

Flexible and Scalable

Easy adaptation to upgrade requirements throughout the CMS lifecycle, such as integration of additional sensors, applicable tailoring and customization to requirements.

Combat System Integration Solutions

Elbit Systems has decades of experience in naval programs and advanced combat systems for combatant ships – frigates, corvettes, missile boats and other vessels. The flexible solution enables seamless integration of third-party OEM vendor subsystems, offering a modern, robust and effective combat solution.

Key Benefits

- Turnkey solution for new and modernized vessel programs
- End-to-end combat warfare management
- Enhanced Elbit Systems components
- Full flexibility to integrate legacy customer C⁴I, sensors and weapons
- Integrates with customer Headquarter Command Center, task force and other external agencies
- Configurable to customer requirements and user preferences
- Cost-effective and scalable architecture

Optional Combat Systems for Frigate / Corvette

Weapons

Sea and Shore Attack | Anti Air & Missile missiles | Shore Attack | Sea Attack | RCWS 12.7 mm | 40/76mm Main Gun | 30mm Second Gun | Torpedo | DCLS | ECM

CMS & Comms

Servers | Trainer | Operators Consoles | SAT | HF | U/VHF

Sensors

EOS | LWS | 3D RADAR and AIS | NAV RADAR | IFF | ESM | COMINT/DF | TAS | HMS | INS System | ISNS

Combat System Integration Solutions

Solution Features

- Full integration with USV and UAS platforms
  - Anti-Submarine Warfare
  - Mine Countermeasure Missions
  - ISTAR Missions
  - Security Missions
- Soft kill / Hard kill integration
- Simultaneous operational mission execution support
- Multi-channel data link management for multi-ship, ship-to-shore and ship-to-air (MPA, helicopter, UAS) interoperability
- Ship database management, record & debrief capabilities
- Tactical trainers from subsystem level to warfare and simultaneous mission execution

Multi Mission USV Solution "Seagull™"

Maritime UAS

Patrol Boat Potential Solution

- 2 x navigation radars
- 2 x EOS (Day, IR, SWIR, LRF and additional features)
- War-AIS
- ECDIS
- C^2 system (derived from current CMS)
- COMMs suite: HF, VHF, UHF, SATCOM
- 2 x RCWS 12.7mm
- 1 x RCWS 25/30mm
- 1 x USV / UAS operation

Interceptors Potential Solution

- 1 x navigation radar
- 1 x EOS (Day, IR)
- War-AIS
- ECDIS
- COMMs suite: HF, VHF, UHF, SATCOM
- 1 x RCWS 12.7mm
- 1x USV / UAS operation

Elbit Systems™ ISTAR & EW

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